AMENDMENTS TO THE CLAIMS:

Kindly amend claims 1, 10 and 23, and add new claims 27 and 28, as shown below.

This listing of claims will replace all prior versions and listings of claims in the Application:

Claim 1 (currently amended): A system for manipulating a document object model, the system comprising:

a memory for storing instructions;

a processor for executing the instructions stored in the memory, the executed instructions configuring the processor and memory to provide:

a viewer for creating, manipulating and displaying a document object model from a received markup file describing a user interface including an instance of at least one behavior element, the viewer including:

a collection of predefined document object model behavior elements, the collection of predefined behavior elements including the at least one behavior element of the received markup file, each behavior element comprising:

a namespace for identifying the behavior element;

an event attribute for associating the behavior element to an event monitored by the viewer; and

other attributes for describing features of the behavior element; and a collection of scripts for performing actions associated with the [[set]] collection of behavior elements, each script of the collection of scripts being associated with a behavior element of the collection of behavior elements through the event attribute of the behavior element and, the actions manipulating the document object model in a predefined

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manner according to the other attributes of the behavior element when the viewer detects the occurrence of the event associated with the behavior elementscript associated with behavior and the other attributes of the behavior element.

Claim 2 (original): The system as claimed in claim 1, wherein the behavior element is associated with an extensible markup language element.

Claim 3 (original): The system as claimed in claim 2, wherein the behavior element is a child of the extensible markup language element.

Claim 4 (original): The system as claimed in claim 2, wherein the behavior element is a parent of the extensible markup language element.

Claim 5 (original): The system as claimed in claim 1, wherein the actions comprise behavioral mutations of an output of extensible markup language elements.

Claim 6 (original): The system as claimed in claim 1, further comprising an initialization function for directing the processing of one or more behavior elements in a document object model, the initialization function having instructions for traversing each node in the document object model and for searching and calling functions associated with behavior elements having names following the predetermined naming convention.

Claim 7 (original): The system as claimed in claim 6, further comprising:

a collection of behavior attributes for adding to existing regular extensible markup language elements in a document object model, the behavior attributes following the predetermined naming convention; and

a collection of scripts for performing actions associated with the collection of behavior attributes, each script associated with a behavior attribute.

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Claim 8 (original): The system as claimed in claim 7, wherein the initialization function contains instructions for traversing each node in the document object model and for searching and calling functions associated with behavior elements and behavior attributes having names following the predetermined naming convention.

Claim 9 (original): The system as claimed in claim 1, wherein the collection of behavior elements comprises a markup language.

Claim 10 (currently amended): A system for manipulating a document object model, the system comprising:

a memory for storing instructions;

a processor for executing the instructions stored in the memory, the executed instructions configuring the processor and memory to provide:

a viewer for creating, manipulating and displaying a document object model from a received markup file <u>describing a user interface</u> including an instance of at least one behavior element, the viewer including:

a collection of predefined document object model behavior elements, the collection of predefined behavior elements including the at least one behavior element of the received markup file, each behavior element comprising:

a namespace for identifying the behavior element;

an event attribute for associating the behavior element to an event monitored by the viewer; and

other attributes for describing features of the behavior element; and a collection of scripts for performing actions associated with the [[set]] collection of behavior elements, each script of the collection of scripts being associated with a behavior element of the

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collection of behavior elements through the event attribute of the behavior element and, the actions manipulating the document object model in a predefined manner according to the other attributes of the behavior element when the viewer detects the occurrence of the event associated with the behavior elementseript associated with behavior and the other attributes of the behavior element,

wherein the collection of behavior elements comprises one or more of:

a dsvg:createElement behavior element for creating a new element and inserting the newly created element in a desired location in the document object model, the dsvg:createElement behavior element comprising:

a namespace;

an event attribute for specifying the event that triggers the behavior element, the event attribute settable to a string;

a collection of other attributes comprising:

an identification attribute for referencing the behavior element;

a new element identification attribute for specifying the value of

an identification attribute of the newly created element;

an element name attribute for specifying the name of the element

to be created;

an attributes attribute for containing all of the attributes for the

newly created element;

a namespace attribute for specifying the namespace of the newly

created element;

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a target attribute for specifying the xpath pointing to the location at which the new element is to be inserted;

an insert as attribute for specifying whether the new element is to be inserted as a child, parent or sibling of a target element;

an offset attribute for specifying the number of nodes before or after the target element;

a from attribute for specifying whether the offset attribute is relative to first child or last child of the target element;

a preserve target children attribute for specifying whether to copy the children of the target element;

a preserve target events attribute for specifying whether to copy the events of the target element; and

a preserve target attributes attribute for specifying the attributes of the target element;

a dsvg:createEvent behavior element for creating an event and dispatching the event to a desired target in the document object model, the dsvg:createEvent behavior element comprising:

a namespace following the predetermined naming convention;

an event attribute for specifying the event that triggers the behavior element, the event attribute settable to a string;

a collection of other attributes comprising:

an identification attribute for referencing the behavior element; an event name attribute for specifying the type of the event;

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a source attribute for specifying the xpath to the element that the

target will believe created the event;

a target attribute for specifying the xpath to the element to which

the event is dispatched;

an event phase attribute for specifying a phase of event flow that

is currently being evaluated;

a bubbles attribute for specifying whether or not the event can

bubble;

a cancelable attribute for specifying whether or not the event can

have its default actions prevented;

a time stamp attribute for specifying the time at which the event

was created;

a stop propagation attribute for preventing further propagation of

an event during event flow; and

a prevent default attribute for specifying whether or not the event

is to be cancelled, so that any default action normally taken by an implementation as a result of

the event will not occur;

a dsvg:loadXML behavior element for creating a new element and inserting the

newly created element in a desired location in the document object model, the dsvg:loadXML

behavior element comprising:

a namespace following the predetermined naming convention;

an event attribute for specifying the event that triggers the behavior

element, the event attribute settable to a string;

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a collection of other attributes comprising:

an identification attribute for referencing the behavior element;

a source attribute for specifying an xpath to a document or

element within a document in an external file;

a target attribute for specifying an xpath pointing to where the

document or fragment is to be placed;

an insert as attribute for specifying whether the new fragment is

to be inserted as a child, a parent or a sibling of the target element;

an offset attribute for specifying the number of nodes before or

after the target element at which to insert the new element;

a from attribute for specifying whether the offset attribute is

relative to the first child or last child of the target element;

a preserve target children attribute for specifying whether to copy

the children of the target element;

a preserve target events attribute for specifying whether to copy

the events of the target element; and

a preserve target attributes attribute for specifying the attributes

of the target element;

a dsvg:setAttribute behavior element for creating, modifying, replacing or

removing an attribute for a target element in the document object model, the dsvg:setAttribute

behavior element comprising:

a namespace following the predetermined naming convention;

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an event attribute for specifying the event that triggers the behavior element, the event attribute settable to a string;

a collection of other attributes comprising:

an identification attribute for referencing the behavior element;

a target attribute for specifying an xpath pointing to a location of

the target element;

a name attribute for specifying the name of the attribute to be set;

a namespace attribute for specifying a namespace of the attribute

to be set:

a modify attribute for specifying whether the attribute is to be created, replaced, removed or modified, with new text added to the beginning or the end of existing text;

a delimiter attribute for specifying text that is to separate a previous value from a new value;

a value attribute for specifying a value that the attribute is to be

given; and

a save previous value attribute for specifying whether to save the

previous value of the attribute;

a dsvg:setClass behavior element for modifying contents of a class attribute of a target element in the document object model, the dsvg:setClass behavior element comprising:

a namespace following the predetermined naming convention;

an event attribute for specifying the event that triggers the behavior

element, the event attribute settable to a string;

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a collection of other attributes comprising:

an identification attribute for referencing the behavior element;

a target element for specifying an xpath pointing to a location of

the target element;

an element identification attribute for specifying the

identification attribute of the target element;

a css name attribute for specifying the name of a CSS rule to

replace, be added to, or be removed from the class attribute of the target element;

a modify attribute for specifying how the CSS rule should modify

the class attribute of the target element; and

a save previous value attribute for specifying whether to save the

previous value of the class attribute of the target element;

a dsvg:setData behavior element for modifying data of a target element in the

document object model, the dsvg:setData behavior element comprising:

a namespace following the predetermined naming convention;

an event attribute for specifying the event that triggers the behavior

element, the event attribute settable to a string;

a collection of other attributes comprising:

an identification attribute for referencing the behavior element;

a target attribute for specifying an xpath pointing to a location of

the target element;

an element identification attribute for specifying the

identification attribute of the target element;

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a value attribute for specifying the string to replace or add to data

of the target element;

a modify attribute for specifying how previous data it to be

modified by new data;

an offset attribute for specifying the number of characters from

the beginning or end of the data at which to insert new data;

a from attribute for specifying whether the offset attribute is

relative to the beginning or end of the data;

a count attribute for specifying the number of consecutive

characters after the offset attribute to be replaced by the new data or to have the new data

appended after;

a substring attribute for specifying text to search for in the data of

the target element;

an occurrence attribute for specifying which occurrence of the

substring attribute should be removed, replaced or modified; and

a save previous value attribute for specifying whether to save the

previous data of the target element;

a dsvg:setStyle behavior element for modifying the contents of a style attribute

of a target element and for replacing the contents of a class attribute in a target element in the

document object model, the dsvg:setStyle behavior element comprising:

a namespace following the predetermined naming convention;

an event attribute for specifying the event that triggers the behavior

element, the event attribute settable to a string;

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a collection of other attributes comprising:

an identification attribute for referencing the behavior element;

a target attribute for specifying an xpath pointing to a location of

the target element;

a name attribute for specifying the name of the style property to

be added, removed or replaced;

a value attribute for specifying the value of the style property to

be added, removed or replaced;

a modify attribute for specifying how to modify the style attribute

of the target element; and

a save previous value attribute for specifying whether to save the

previous value of the style attribute of the target element; and

a dsvg:setTransform behavior element for modifying a transform attribute of a

target element in the document object model, the dsvg:setTransform behavior element

comprising:

a namespace following the predetermined naming convention;

an event attribute for specifying the event that triggers the behavior

element, the event attribute settable to a string;

a collection of other attributes comprising:

an identification attribute for referencing the behavior element;

a target attribute for specifying an xpath pointing to the location

of the target element;

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a matrix attribute for specifying a matrix transformation to be applied to the target element;

an absolute attribute for specifying how to apply a new transformation with respect a current transformation of the target element;

an hAlign attribute for specifying how to calculate and apply a translation to the target element;

a vAlign attribute for specifying how to calculate and apply a translation to the target element;

a reference identification attribute for specifying the identification attribute of the target element; and

a save previous value attribute for specifying whether to save the previous value of the transform attribute of the target element.

Claims 11-22 (cancelled)

Claim 23 (currently amended): A method of manipulating a document object model, the method comprising the steps of:

receiving at a viewer, and storing in a computer readable memory, a markup file describing a user interface including an instance of at least one behavior element including an event attribute for associating the behavior element to an event monitored by the viewer;

parsing the markup file to the document object model;

adding an event listener to monitor monitoring for the occurrence of the event specified in the event attribute of the behavior element in the parsed document object model;

receiving detecting an event which is equal to the event attribute setting in the designated element being monitored; and

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calling a predefined script associated with the predefined behavior element having the event attribute matching the received event, the script performing actions including manipulating the document object model in a predefined manner based on other attributes of the behavior element.

Claim 24 (original): The method as claimed in claim 23, wherein the step of calling a script includes the steps of:

determining if the name of the designated element contains a designated prefix;

generating a function name comprising of the name of the designated element;

assigning an object associated with the designated element as the parameter of the function name; and

assigning predetermined instructions of the designated element as steps for a function having the function name to perform.

Claim 25 (original): The method as claimed in claim 23, wherein the step of calling a script includes the steps of:

dynamically generating a function name associated with the designated element; passing an object associated with the designated element as a parameter of the generated function name;

receiving the attributes of the object; and

performing a function stored in memory having the generated function name.

Claim 26 (cancelled).

Claim 27 (new): The system as claimed in claim 1, wherein the markup file describing the user interface is based on Scalar Vector Graphics (SVG) that has been extended to include tags for the behavior elements of the collection of behavior elements.

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Claim 28 (new): The method as claimed in claim 10, wherein the markup file describing the user interface is based on Scalar Vector Graphics (SVG) that has been extended to include tags for the behavior elements of the collection of behavior elements.

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